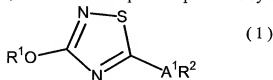


**Amendments to and Listing of the Claims:**

Please amend claims, without prejudice, as shown below in the following listing of all claims ever presented. The following listing of claims replaces all prior versions of the claims.

1-11. (Canceled)

12. (New) A 1,2,4-thiadiazole compound represented by the formula (1):



wherein,

R<sup>1</sup> represents C<sub>3</sub>-C<sub>7</sub> alkynyl optionally substituted with a halogen atom;

R<sup>2</sup> represents C<sub>3</sub>-C<sub>8</sub> cycloalkyl, C<sub>5</sub>-C<sub>8</sub> cycloalkenyl or C<sub>7</sub>-C<sub>11</sub> bicycloalkyl,

wherein the C<sub>3</sub>-C<sub>8</sub> cycloalkyl, the C<sub>5</sub>-C<sub>8</sub> cycloalkenyl and the C<sub>7</sub>-C<sub>11</sub> bicycloalkyl is optionally substituted with one or more substituents selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, a halogen atom and trifluoromethyl; and

A<sup>1</sup> represents a single bond, C<sub>1</sub>-C<sub>2</sub> alkylene or C<sub>2</sub>-C<sub>3</sub> alkylidene.

13. (New) The 1,2,4-thiadiazole compound according to claim 12, wherein R<sup>2</sup> is C<sub>3</sub>-C<sub>8</sub> cycloalkyl optionally substituted with C<sub>1</sub>-C<sub>4</sub> alkyl.

14. (New) The 1,2,4-thiadiazole compound according to claim 12, wherein A<sup>1</sup> is a single bond.

15. (New) The 1,2,4-thiadiazole compound according to claim 12, wherein A<sup>1</sup> is C<sub>1</sub>-C<sub>2</sub> alkylene.

16. (New) The 1,2,4-thiadiazole compound according to claim 12, wherein R<sup>1</sup> is 2-butynyl or 2-pentynyl.

17. (New) An arthropod controlling composition comprising the 1,2,4-thiadiazole compound according to claim 12 and an inert carrier.

18. (New) A method for controlling arthropod pests comprising applying an effective dose of the 1,2,4-thiadiazole compound according to claim 12 to the arthropod pests or habitat of the arthropod pests.

19. (New) The 1,2,4-thiadiazole compound according to claim 13, wherein A<sup>1</sup> is a

single bond.

20. (New) The 1,2,4-thiadiazole compound according to claim 13, wherein A<sup>1</sup> is C<sub>1</sub>-C<sub>2</sub> alkylene.

21. (New) The 1,2,4-thiadiazole compound according to claim 13, wherein R<sup>1</sup> is 2-butynyl or 2-pentynyl.

22. (New) An insect controlling composition comprising the 1,2,4-thiadiazole compound according to claim 12 and an inert carrier.

23. (New) A method for controlling insect pests comprising applying an effective dose of the 1,2,4-thiadiazole compound according to claim 12 to the insect pests or habitat of the insect pests.

24. (New) The method according to claim 23, wherein the insect pests are selected from the group consisting of Hemiptera, Lepidoptera, Diptera, Coleoptera, Thysanoptera, Hymenoptera, Dictyoptera, Orthoptera, Anoplura, and Isoptera.

25. (New) An acarine controlling composition comprising the 1,2,4-thiadiazole compound according to claim 12 and an inert carrier.

26. (New) A method for controlling acarine pests comprising applying an effective dose of the 1,2,4-thiadiazole compound according to claim 12 to the acarine pests or habitat of the acarine pests.

27. (New) The method according to claim 25, wherein the acarine pests are acarina.